

StormReady and TsunamiReady

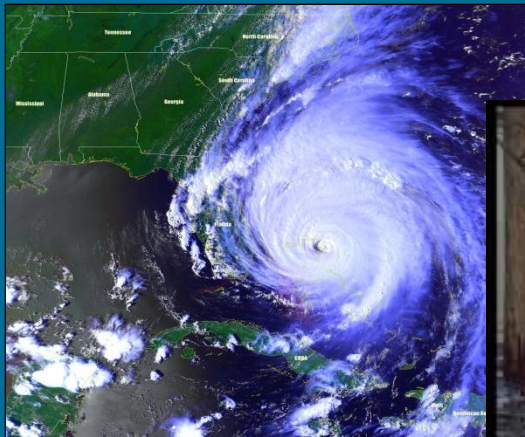
Working Together to Save Lives

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Why do we need StormReady?

- Approximately 90% of all Presidentially declared disasters are weather related.
- On average there are 500 weather related deaths each year across America.
- Severe weather causes nearly \$14 Billion in property damage annually.



What is TsunamiReady?

- A part of the NWS StormReady Program.
- A “*grass roots*” program that promotes tsunami hazard readiness.
- A collaborative effort between federal, state, and local emergency management, and the public.
- A method to improve public safety during tsunami emergencies.



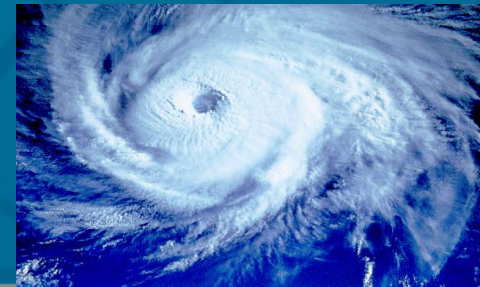
TsunamiReady Objectives

- Create community guidelines for tsunami readiness.
- Provide Educational materials and response.
- Recognize communities that adopted TsunamiReady guidelines.
- Increase public awareness and understanding of the tsunami hazard.
- Improve pre-planning for tsunamis .

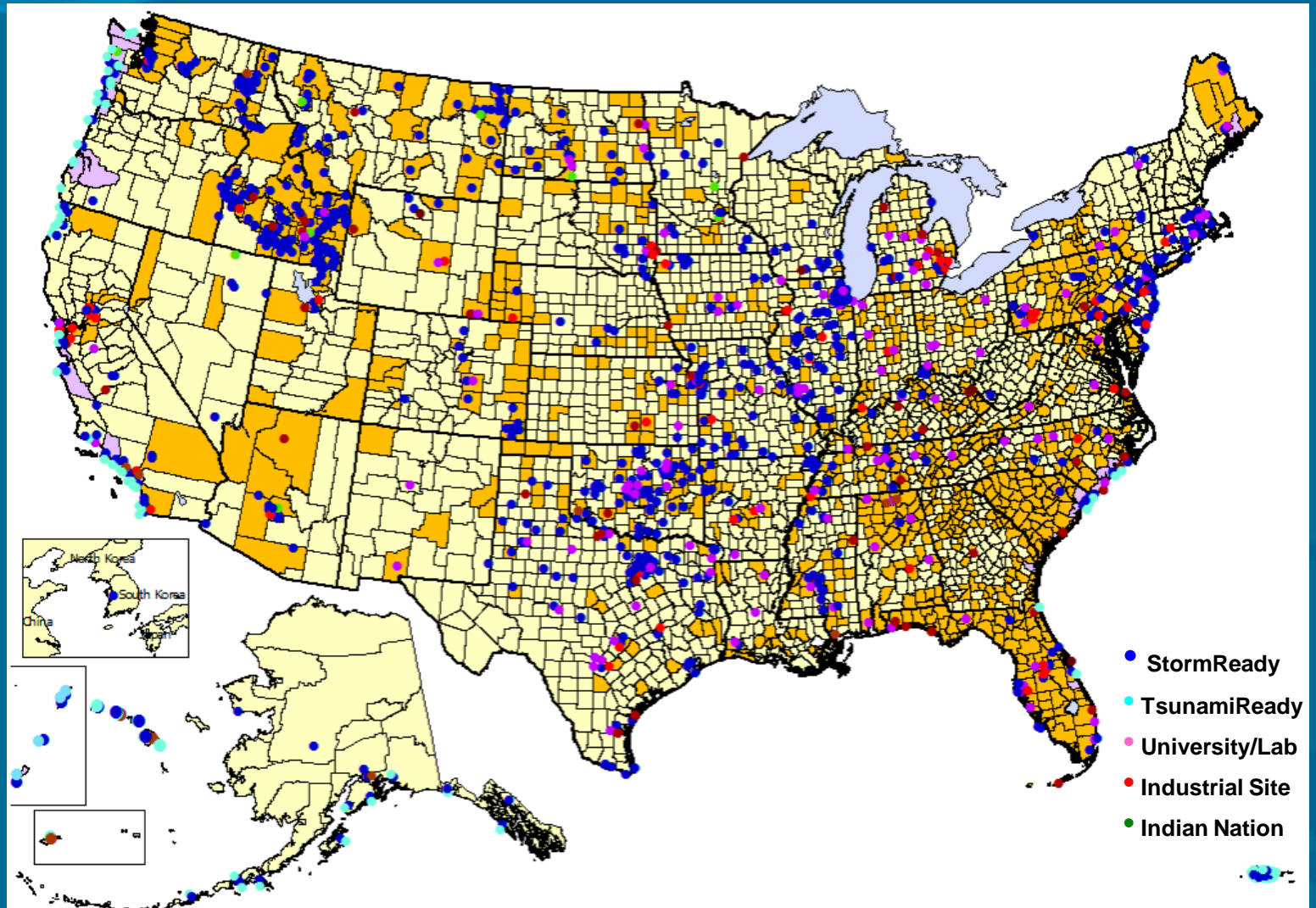


TsunamiReady Benefits

- Community is more prepared *“for all hazards.”*
- Regularly scheduled education forums.
- Increase contacts with experts (emergency managers, researchers, NWS personnel).
- Identify community readiness needs.
- Improve position to receive State/Federal funds.
- Enhance “core” infrastructure to support other community hazards.
- Allow public to see how tax dollars are being spent.



As of February 2012 there were 2048 StormReady & 130 Tsunami Ready Sites



How does a Community become TsunamiReady?

Establish Communication and Coordination Plan

- 24 Hour Warning Point
- Emergency Operations Center

Receive Critical Tsunami Warning Information

- NOAA Weather Radio
- NOAA Weather Wire
- Emergency Managers Weather Information Network
- News Media (Radio/TV)
- Internet
- Pagers, cell phones, etc.



Examples of Notification Systems

- Use of Mass Media (Radio, Television)
- **Siren Towers**
- First Responders (i.e. Police, Fire, Lifeguards)
- **Public Loudspeakers on building**
- SMS Text Messaging – WEA (Wireless Emergency Alerts)
- **Emergency Telephone Call Lists (public and private sectors) – Reverse 911**
- Amateur Radio
- **Military Resources - Helicopters and Aircraft w/ Speakers**
- iNWS and NWSChat
- **NWR Alert radios**
- Social Media / TXDOT electronic signs

How does a Community become TsunamiReady? (contd)

Disseminate Tsunami Warnings

- Emergency Alert System
- Cable Override
- NOAA Weather Radio in public buildings
- Sirens
- Other systems unique to the area



How does a Community become TsunamiReady? (contd)

Increase Community Preparedness

- NWS staff provide Tsunami safety presentations
- Designate/establish tsunami area in safe zone
- Designate tsunami evacuation areas and evacuation routes, and install evacuation route signs
- Provide written, local specific, tsunami hazard response material to public
- Schools: encourage tsunami hazard curriculum, practice evacuations, and provide safety material to staff and students



How does a Community become TsunamiReady? (contd)

Administrative

- Develop formal tsunami hazard operations plan
- Yearly meeting/discussion by emergency manager with NWS
- Visits by NWS official to community at least every other year

Emergency Operations
Plan

Tsunami Emergency Response

Concept of Operations - “End to End”

- **Measured by ability to rapidly move people out of harm's way**
- **Require pre-event development of documents describing responses / actions**
- **Response Plans, Standard Operating Procedures (SOP), Checklists enable quick 24x7 action to alert communities (and conduct evacuation)**

TsunamiReady Recognition Process

- **Community applies to local NWS Office.**
- **Local TsunamiReady Advisory Board reviews application.**
- **TsunamiReady Advisory Board performs on-site verification visit.**
- **If criteria are not met, TsunamiReady Advisory Board suggests improvements and works to implement changes.**
- **Once criteria are met, a recognition Ceremony and Press Conference is held for community.**

Successful Applicants Receive:

- TsunamiReady recognition letter valid for 3 years.
- Two official TsunamiReady signs.
- Authorization to use the TsunamiReady logo.
- Instructions for acquiring additional signs.
- Information on how to notify the ISO for possible flood insurance rate adjustment (for StormReady).
- Listing on the Natl StormReady Website.



NWS StormReady Website

- ***StormReady Main Page:*** Welcome to the program
- ***Communities:*** National map of StormReady communities
- ***How to Apply:*** Application process details. Application is available in WordPerfect, MS Word, PDF, and on-line formats. There's also a "Tool Kit for Emergency Managers"
- ***Resources/TsunamiReady:*** Info on TsunamiReady and ability for you to e:mail us with your best practices
- ***Awareness:*** Weather safety brochures and materials
- ***Publications/Photos:*** FAQs, brochures, ceremony photos, StormReady History
- ***Contact Us:*** State map of USA. Click on a state to get your local NWS TsunamiReady contact

TsunamiReady Web Resources

Tsunami Information: tsunami.gov

***NWS TsunamiReady Page:
www.tsunamiready.noaa.gov/***

***NWS West Coast & Alaska Tsunami Warning
Center: wcatwc.arh.noaa.gov/***

***NWS Pacific Tsunami Warning Center:
www.prh.noaa.gov/pr/ptwc***



Thank You!

